

**U.S. ENVIRONMENTAL PROTECTION AGENCY
TECHNICAL ENFORCEMENT SUPPORT**

AT

HAZARDOUS WASTE SITES

**TES X
EPA CONTRACT NO. 68-W9-0007
EPA WORK ASSIGNMENT NO. R07047
EPA REGION VII**

**TRIP REPORT
SOIL SAMPLING
MONSANTO J.F. QUEENY PLANT SITE
ST. LOUIS, MISSOURI**

**METCALF & EDDY
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JACOBS PROJECT NO. 13-E082-00

MARCH 1994

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RCRA

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1.0 INTRODUCTION

During the period March 7 through March 11, 1994, Jacobs Engineering Group Inc. (Jacobs) representative, Bill Gresham, was present at the Monsanto J.F. Queeny facility (Monsanto) in St. Louis, Missouri. The purpose of this visit was to perform oversight and obtain split soil samples on behalf of the U.S. Environmental Protection Agency (EPA). These procedures were performed by representatives of Geraghty & Miller, Inc. Environmental Services (G&M), which is Monsanto's contractor. Subcontracted Geoprobe™ services were performed by GeoTrace, Inc. (GTI). Jacobs, subcontractor to Metcalf & Eddy, Inc. (M&E), under the Technical Enforcement Support (TES) X Contract (No. 68-W9-0007), performed the work as part of Work Assignment No. R07047.

2.0 PROJECT DESCRIPTION

2.1 Site Background

The Monsanto facility is located on a 63-acre site in St. Louis, Missouri (Figure 1). The site is located approximately 500 to 800 feet west of the Mississippi River in a heavily populated and industrialized area accessible to interstate highways and large railroad centers.

This plant began manufacturing in 1902. Over 200 different products, in over 800 different forms, have been manufactured here. Its major product families have included process chemicals, such as maleic anhydride, fumaric acid, trichlorocarbanilide (TCC), toluene sulfonic acid, and nitrophenetole; plasticizers, such as phthalate esters and toluene sulfonamides; synthetic functional fluids such as pydrauls, skydrols, and coolanols; food and fine chemicals such as salicylic acid, aspirin, methyl salicylate, benzoic acid, and ethavan; and agricultural chemicals such as Lasso™.

Previous investigations at the site began in 1983 with a plant-wide hydrogeologic investigation that included installation of sixteen (16) monitoring wells. In 1984, twelve (12) additional monitoring wells were installed plant-wide. Organic compounds were detected in several groundwater monitoring wells. In 1985, eight (8) soil borings and three (3) monitoring wells were installed near Building FF. A nonaqueous phase liquid (NAPL) was detected in two (2) of the monitoring wells (MW-14 and VW-2). Four (4) recovery wells were installed near Building FF to recover the tetrachloroethylene (PCE) and reduce the extent of contamination.

In 1986, Monsanto changed environmental consultants from Environmental Science & Engineering, Inc. (ESE) to G&M, who initiated investigation of the NAPL detected in monitoring well MW-14, located northeast of the Lasso™ production and railcar unloading area. Five (5) soil borings and five (5) monitoring wells were installed in the Lasso™ production area to determine the areal and vertical extent of contamination. Organic compounds associated with Lasso™ production were detected in all five (5) newly installed monitoring wells, including NAPL in MW-14. In April 1988, G&M conducted two (2) additional subsurface investigations at the coal storage yard and at the former bulk chemical terminal. Twelve (12) soil borings and five (5) monitoring wells were installed. Results from this investigation indicated that volatile organic compounds (VOC) were detected in overlying fill material at the former bulk chemical terminal and at the coal storage yard. In March 1992, G&M submitted a Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report which characterized the vertical and horizontal extent of contamination in groundwater and soil. The RFI Report concluded that the contamination present at the site did not pose a significant health risk to the public. In May and June of 1993, O'Brien & Gere Engineers, Inc. (O&G) conducted an investigation of the soil and groundwater associated with former Building FF, which had been demolished in 1992. A report detailing this investigation was submitted in July 1993. This report indicates that the subsurface soil and groundwater in the vicinity of former Building FF have been impacted by VOCs. In August 1993, O&G submitted an RFI Phase II Work Plan to address data gaps that remained following the initial RFI efforts. In November 1993, G&M performed a groundwater sampling event in conjunction with Phase II of the RFI.

2.2 Objectives

The purpose of the oversight performed by Jacobs was to observe the activities associated with the soil sampling at the facility, and to obtain split samples of a portion of the soil samples collected by the facility. Oversight of field activities was performed to document Monsanto's compliance, along with that of its contractor, G&M, with approved procedures in the RFI Phase II Work Plan. Split samples were obtained by Jacobs and analyzed by the EPA Region VII Laboratory to check the accuracy of Monsanto's sample preservation, management, and laboratory analysis, as performed by Monsanto (for PCB screening samples) and Savannah Laboratories of Savannah, Georgia (all other samples). Subcontract work on the Geoprobe™ sampling effort, performed by GTI of Mt. Vernon, Illinois, was observed as well. Split samples of Geoprobe™ soil samples were obtained in several cases.

3.0 FIELD ACTIVITIES

3.1 Introduction

During the oversight period (March 7 through March 11, 1994), the Jacobs representative observed soil sampling throughout the site, which was implemented in order to better define the nature and extent of contaminants of interest. This work was necessitated as a result of data gaps that remained following the initial RFI efforts. Refer to Attachment A for Photographs, Attachment B for Field Log Notes, and Attachment C for Chain of Custody/Field Sheets.

The Jacobs representative arrived at the site on March 7, 1994 and proceeded directly to the reception area, where the Monsanto and G&M representatives met him. A safety briefing was conducted for the benefit of all non-plant personnel (Monsanto, G&M, and Jacobs). Following this safety briefing and initial container and equipment preparation, sampling personnel proceeded to the VV Area, where soil sampling locations were set up and Geoprobe™ soil sampling activities were initiated. A total of eighty-four (84) locations were sampled during the Jacobs oversight period. Table 1 presents a summary of sampling conducted during this period.

Site personnel, their affiliation, and time on-site (as it relates to the events described herein) during the period of oversight by Jacobs are as follows:

<u>Name</u>	<u>Organization</u>	<u>Date</u>
Jo Hanson	Monsanto	March 7,9-11, 1994
Rich Koenig	Monsanto	March 7-11, 1994
Troy Harlan	Monsanto	March 7-11, 1994
Alan Faust	Monsanto	March 11, 1994
Laurie Musiker	G&M	March 7-10, 1994
Jamie Yater	G&M	March 7-11, 1994
John Upcraft	GTI	March 7,8,10,11, 1994
Mike Chenoweth	GTI	March 7-11, 1994
Brian Barrett	GTI	March 9-11, 1994
Bill Gresham	Jacobs	March 7-11, 1994

3.2 General Site Conditions and Observations

Weather conditions during the oversight period were clear to cloudy, breezy and cool, with morning temperatures starting at about 35°F and afternoon highs reaching between approximately 40°F and 60°F. Light rain fell on March 7. No precipitation fell during the remainder of the period, and ground conditions were dry.

3.3 Oversight of Geoprobe™ Soil Sampling

The following is a description of the manner in which the Geoprobe™ work was performed. Following set-up of one of GTI's Geoprobe™ vans (Ford cargo vans outfitted with hydraulic drive mechanisms at the rear) at a given location, a sealed stainless steel Probe-Drive sampler was pushed or driven to the desired sampling depth. Inside the sampler, a clear, bis (2-ethylhexyl) phthalate sleeve held the soil sample following retrieval of the sampler. The sample inside this sleeve was then logged and discrete-depth samples were collected by cutting the sleeve open.

Original plans called for sixteen (16) Geoprobe™ sampling locations around the Lasso™ Area, three (3) locations around MW-13, three (3) in the vicinity of MW-20, four (4) in the Former Quarry Area, eight (8) in the Former Bulk Chemical Storage Area, four (4) in the Building KK Area, three (3) at the Former Coal Storage Yard, and three (3) background locations. In addition, a variable number of sampling locations were planned around the Building VV Area and the Boiler Slag Accumulation Pad. Of these, soil samples were actually collected at thirty-three (33) locations around the VV Area, ten (10) locations around the Boiler Slag Accumulation Pad, and fifteen (15) locations around the Lasso™ Area. In the remaining areas, the planned number of locations were actually sampled. Table 1 indicates that one (1) location was sampled adjacent to MW-13, compared to three (3) planned locations. Two (2) of the Former Quarry Area locations (QP-3 and QP-4) were counted toward the location requirement at MW-13. At the Building VV Area and Boiler Slag Accumulation Pad, the number of samples was variable due to unknown underground obstructions and the fact that PCB screening was to be performed on a sample from each initial location. Following this initial screening (performed at Monsanto's St. Louis analytical facility), further locations were chosen to allow for PCB delineation. Delineation was to be considered complete when two geographically consecutive samples had been collected for which screening analysis revealed PCB concentrations of less than or equal to 25 parts per million (ppm). Following the collection of the screening samples, four samples were collected each from the Building VV Area and the Boiler Slag Accumulation Pad for laboratory analysis of PCBs. Three of each of these samples were collected from the perimeters of the delineated areas, and the fourth was collected from the location of the screened sample with the highest screened sample value. Following lateral delineation, deeper samples were collected at a number of locations for PCB analysis. No soil samples were collected below the water table.

The Geoprobe™ was also utilized to determine depth to bedrock below ground surface (bgs) at the Former Quarry Area. Following the collection of samples at each of the four (4) sampling locations at the Former Quarry Area, the Geoprobe™ sampler was pushed to refusal. Table 3 presents the results of this effort. It should be noted that at one location (QP-2), a satisfactory bedrock depth was not determined, due to mechanical problems which resulted in the loss of five (5) Geoprobe™ sampler rods and damage to several others.

Table 1 details sites monitored, number of sample locations, analyses, and preservation used for Monsanto's and EPA's samples from each sampling location. Jacobs obtained split samples from each of the areas except for the MW-13 area. Table 2 presents a summary of the samples obtained as splits for EPA. All sample containers were filled to near capacity. Each forty-milliliter (40-ml) vial for VOC analysis (for EPA) was filled as completely as possible, to ensure that no headspace would be present in the container. The samples were placed into coolers with ice for preservation. Following proper chain-of-custody procedures, the coolers designated to go to Savannah Laboratories were shipped via Federal Express overnight service to ensure receipt and analysis within the prescribed holding times. Split samples obtained by Jacobs were packaged following standard sample-handling protocols and conveyed (by commercial courier and in person) to the U.S. EPA Region VII Laboratories in Kansas City, Kansas. Those sample collection activities observed were performed generally in compliance with the G&M RFI Phase II Work Plan for the J.F. Queeny Site, Monsanto Company, St. Louis, Missouri, dated August 1993, except as noted in Section 8.0 below.

3.4 Field Measurements

Health and safety monitoring was performed through the use of an HNu photoionization detector with a 10.2 electron-volt (eV) lamp. This measurement was made at each sampling location, except for a few the first day, when the HNu malfunctioned. This particular instrument was replaced on the second day of sampling following a call by G&M to Hazco, the provider of the HNu. The HNu was calibrated with 100 parts per million (ppm) isobutylene gas at the start of each sampling day, and background was set at zero.

3.5 Daily Activities and Major Accomplishments

March 7, 1994

The Jacobs representative arrived at the site. G&M, GTI, and Monsanto personnel were already present. Following attendance of a safety briefing, performance of soil sampling commenced, with samples at twenty (20) locations (VP-1 through VP-20) in the VV Area collected. Split samples were obtained at two (2) locations (VP-6 and VP-11) for EPA. At location VP-11, a duplicate sample was also obtained.

March 8, 1994

Soil sampling was performed at eight (8) locations (VS-5 through VS-12) at the Former Bulk Chemical Storage Terminal, ten (10) locations (BP-1 through BP-10) at the Boiler Slag Accumulation Pad and three (3) locations (GP-20-A, GP-20-B, and GP-20-C) adjacent to MW-20. Split samples were obtained at two (2) locations (VS-12-M and VS-11-S) at the Former Bulk Chemical Storage Terminal, and at one (1) location each at the Boiler Slag Accumulation Pad (BP-4) and adjacent to MW-20 (GP-20-AS) for EPA. A duplicate sample was obtained at location VS-11-S as well.

March 9, 1994

Soil sampling was performed at thirteen (13) locations (AC-1, AC-2, AC-3, AC-5 through AC-8, and AC-10 through AC-15) at the Lasso™ Area. Sampling was not completed at location AC-4 due to obstructions encountered during two attempts to advance the sampler. Soil sampling was also performed at one location adjacent to MW-13. Four (4) locations at the Former Quarry Area were sampled. Following sample collection, the Geoprobe™ sampler was pushed to bedrock refusal at all but one of the four Former Quarry Area locations. At location QP-2, two attempts failed to encounter bedrock refusal. The sampler varied from vertical orientation on both attempts, resulting in bent sampler rods and loss of five (5) of the rods. Split samples were obtained at both the Lasso™ Area (AC-1-S, AC-1-D, AC-3-S, AC-5-S, AC-8-S, AC-8-M, AC-8-D, and AC-13-M) and the Former Quarry Area (QP-1-S, QP-2-M, and QP-2-D) for EPA. Duplicate samples were obtained at locations AC-1-D and AC-13-M) as well.

March 10, 1994

Geoprobe™ soil sampling was performed at three (3) locations (HB-2-GP, HW-2-GP, and HW-3-GP) at the Former Coal Storage Yard, nine (9) locations (VP-21 through VP-29) at the VV Building, four (4) locations (KP-1 through KP-4) at the KK Area, one (1) location (AC-9) at the Lasso™ Area, and three background locations (BG-1, BG-2 and BG-3). Split samples were obtained at the Former Coal Storage Yard (HW-2-GP), the KK Area (KP-2-S and KP-2-M), and one of the background locations (BG-2) for EPA. A duplicate sample was obtained at location KP-2-S as well.

March 11, 1994

Geoprobe™ conducted a demonstration of logging capabilities. Another attempt to push the Geoprobe™ sampler to bedrock refusal at Former Quarry Area location QP-2 failed, as the sampler again varied from vertical orientation and the attempt was aborted. Further sampling at four (4) locations (VP-30 through VP-33) at the VV Area was performed. A split sample for EPA was obtained from VV Area sampling (location VP-30). All contractor personnel (G&M, GTI, Geoprobe™, and Jacobs) demobilized from the site.

4.0 SAMPLE HANDLING, CUSTODY, AND DOCUMENTATION PROCEDURES

Preservation, sample handling, and documentation of the soil samples collected by G&M personnel during the presence of the Jacobs representative were performed in accordance with standard accepted procedures and with those procedures set forth in the RFI Phase II Work Plan submitted by Monsanto in August, 1993. Standard procedures were used to preserve, manage, and convey samples obtained by the Jacobs representative on behalf of EPA as well. Each sample was assigned a unique number for tracking and identification. Chain of custody protocols were followed by both parties. Table 1 provides a comparison of the containers and preservation of samples practiced for Monsanto and EPA samples.

5.0 SITE SAFETY

Activities performed by Monsanto, G&M, and GTI were governed by company-specific Health and Safety Plans. The Jacobs representative adhered to the Jacobs Health and Safety Plan. Modified level D personal protective equipment (PPE) was utilized by all on-site personnel. This consisted of disposable gloves, steel-toed boots, safety glasses, hard hats, and street clothes.

6.0 DECONTAMINATION PROCEDURES

6.1 Equipment Decontamination

6.1.1 Geoprobe™ Equipment

The rods utilized in Geoprobe™ advancement were decontaminated by GTI personnel at the conclusion of each workday by steam-cleaning at GTI's decontamination facility located at its Mt. Vernon, Illinois office. The high-pressure wash was enhanced through the use of Liquinox™ nonphosphate soap. Following a tap water rinse, each rod was again rinsed with de-ionized water.

6.1.2 Other Equipment

Sampling equipment, such as steel-bladed utility knives (which were used to cut open the sample sleeves), was decontaminated prior to and/or following each use with a wash in a solution of Alconox™ in potable water followed by a distilled water rinse.

6.2 Personnel Decontamination

Personnel decontamination consisted of washing hands following removal of disposable vinyl and nitrile gloves used when potentially contaminated material was encountered.

7.0 RESIDUALS MANAGEMENT

Fluids generated through equipment decontamination (other than the steam-cleaning-generated fluids) were discharged onto the ground.

Solid investigation-derived waste (IDW), such as used PPE, was bagged and left on-site for disposal as outlined in the approved RFI Phase II Work Plan. Monsanto personnel indicated that this material would be drummed and shipped to an incinerator. The solid IDW generated by the Jacobs representative was combined with that generated by Monsanto, G&M, and GTI personnel.

8.0 DEVIATIONS FROM APPROVED PLANS

Few deviations from the procedures outlined in the approved RFI Phase II Work Plan were noted by the Jacobs representative during oversight activities. Exceptions are noted below.

At one of the Former Quarry Area locations (QP-2), bedrock refusal was not encountered as planned, due to difficulties with the Geoprobe™ equipment at this location, as described in Sections 3.3 and 3.5 above. Also see Table 3.

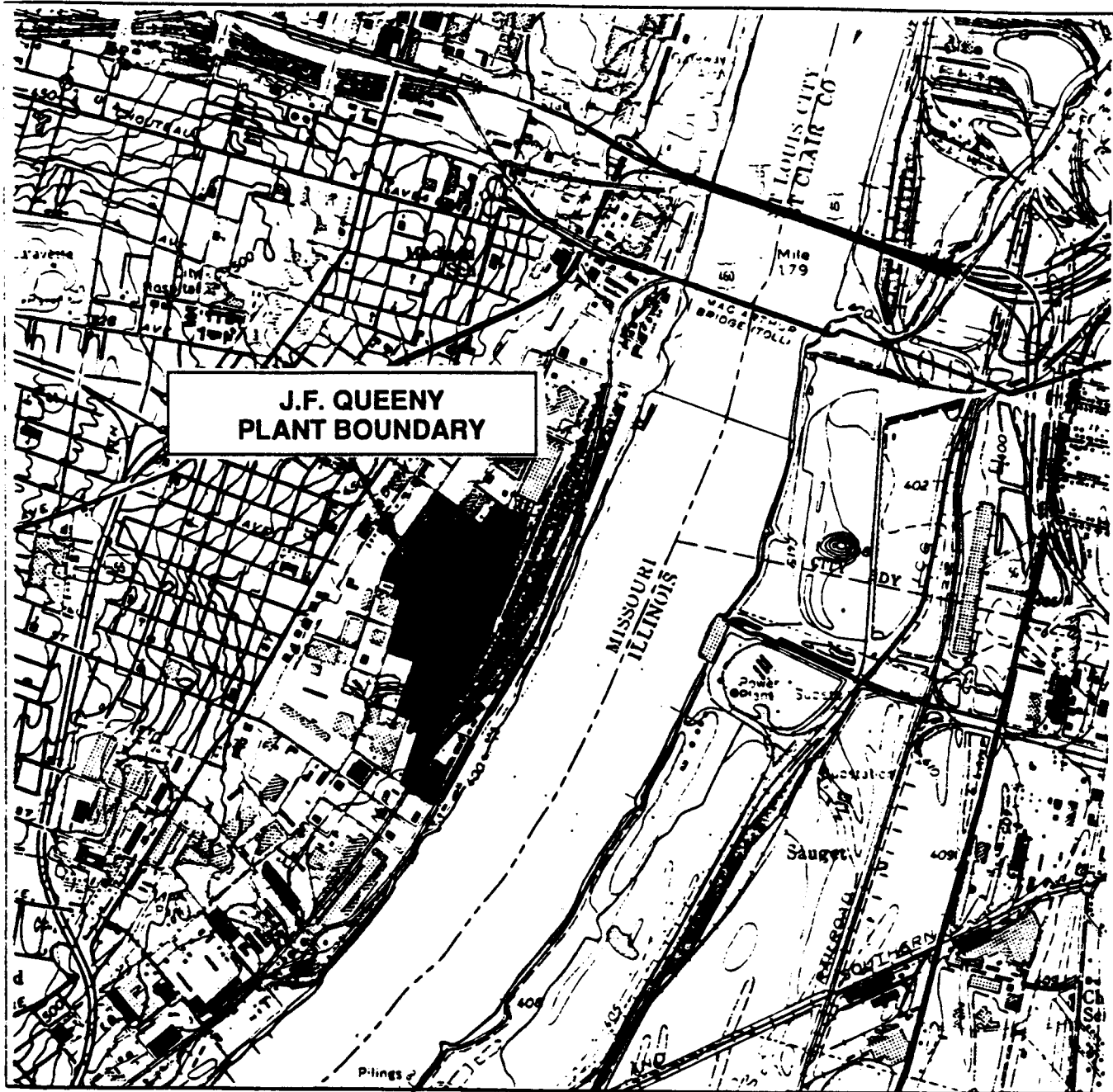
Sampling was not conducted at location AC-4 (Lasso™) due to obstructions encountered on two attempts at Geoprobe™ sampler advancement.

9.0 SUMMARY AND CONCLUSIONS

Jacobs maintained a site presence at Monsanto during the period March 7 - March 11, 1994. While on-site, the Jacobs representative performed oversight of soil sampling activities, at locations throughout the site, as outlined in the above text.

It is Jacobs conclusion that the work performed by Monsanto, G&M, and GTI personnel during this period conformed with the procedures outlined in applicable site guidance, except as noted above.

FIGURES



Source: U.S.G.S. Topographic Map



FIGURE DESCRIPTION:

SITE LOCATION MAP

SITE NAME/LOCATION
MONSANTO - J.F. QUEENY PLANT
ST. LOUIS, MISSOURI

JACOBS PROJECT NO
13-E082-00

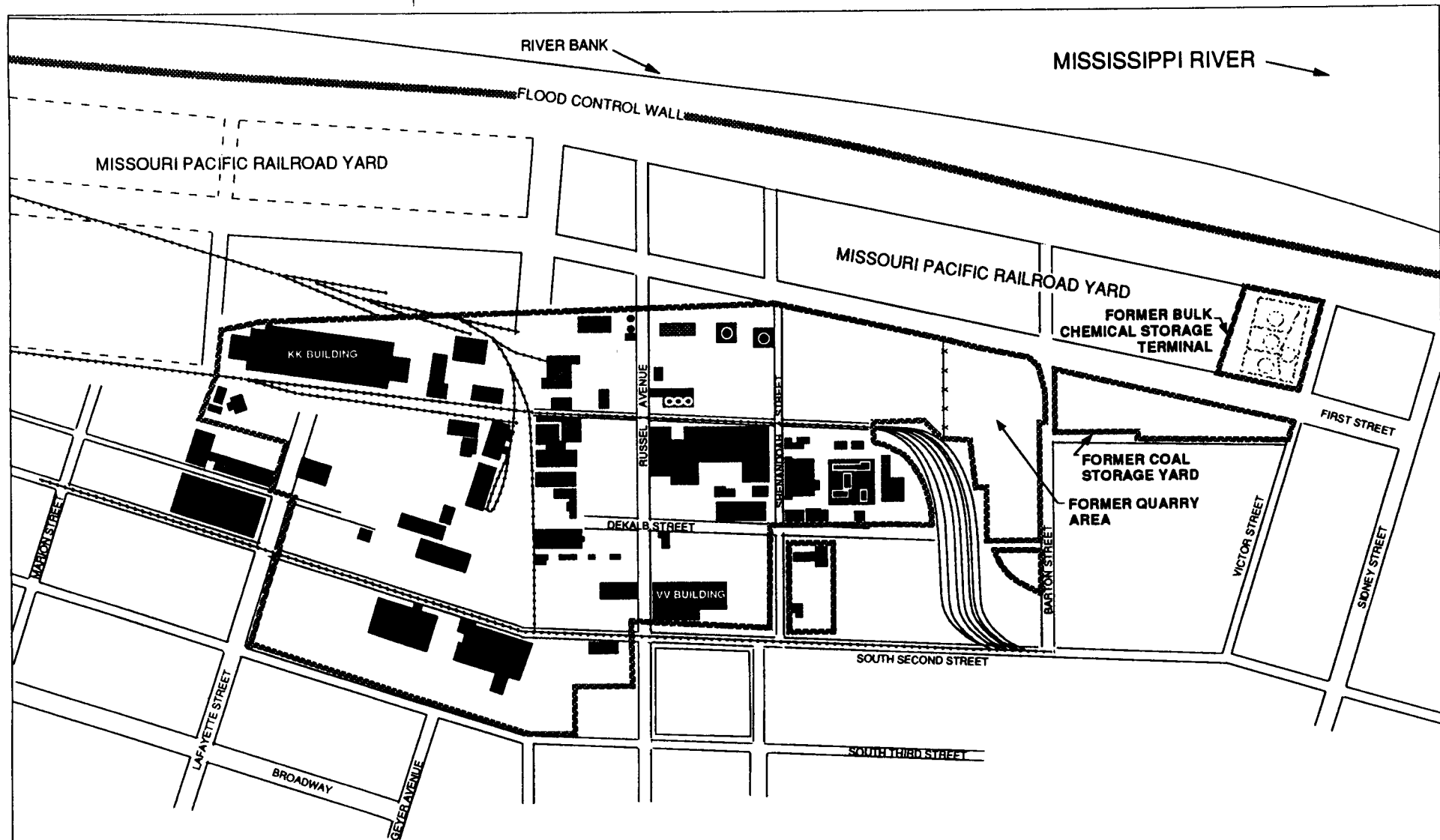
JE JACOBS ENGINEERING
GROUP INC.

TES X

DRAWN BY: MD DATE: 11/23/93

CHECKED BY: BJ DATE: 11/23/93

FIGURE NO
1



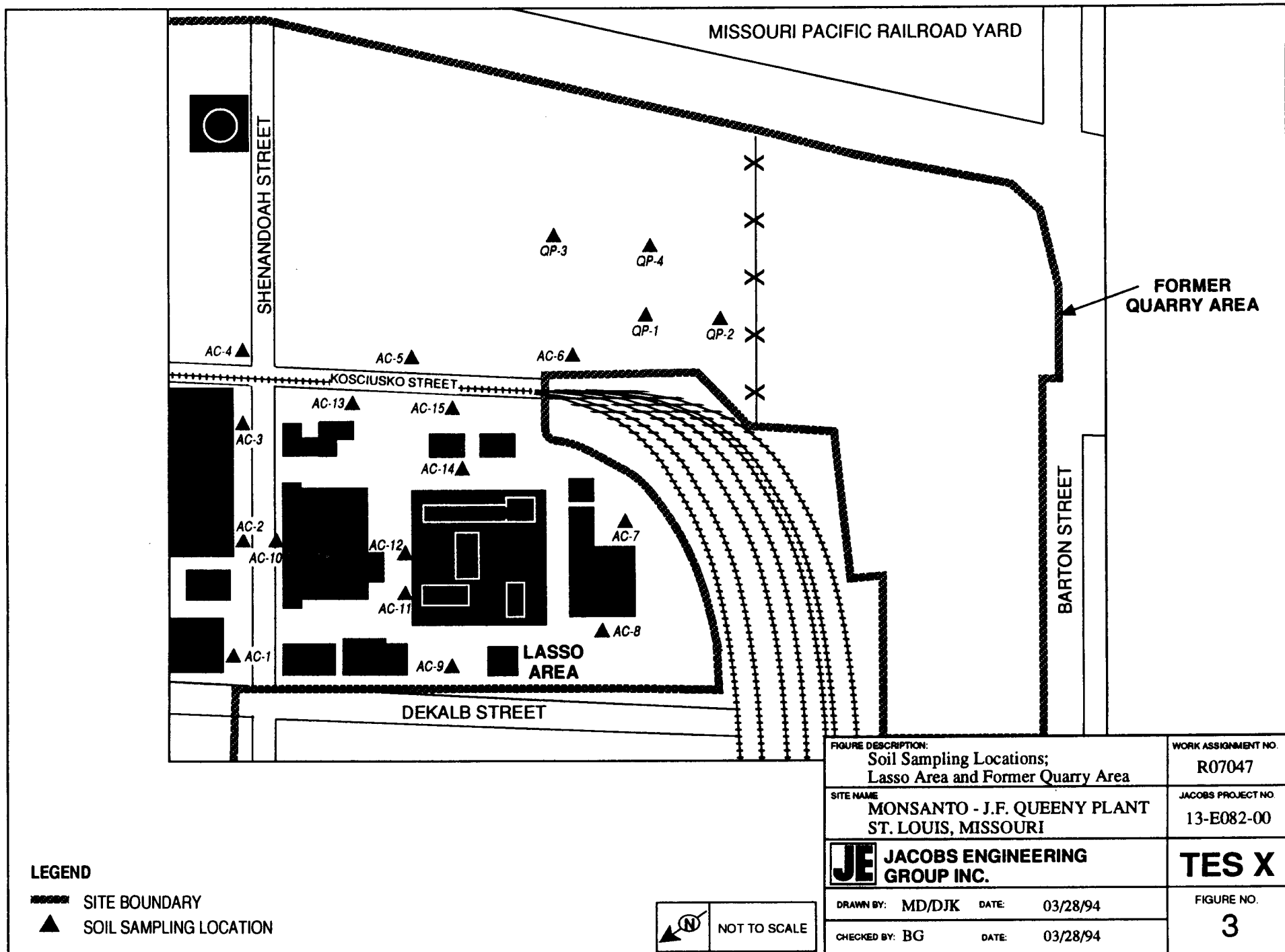
LEGEND

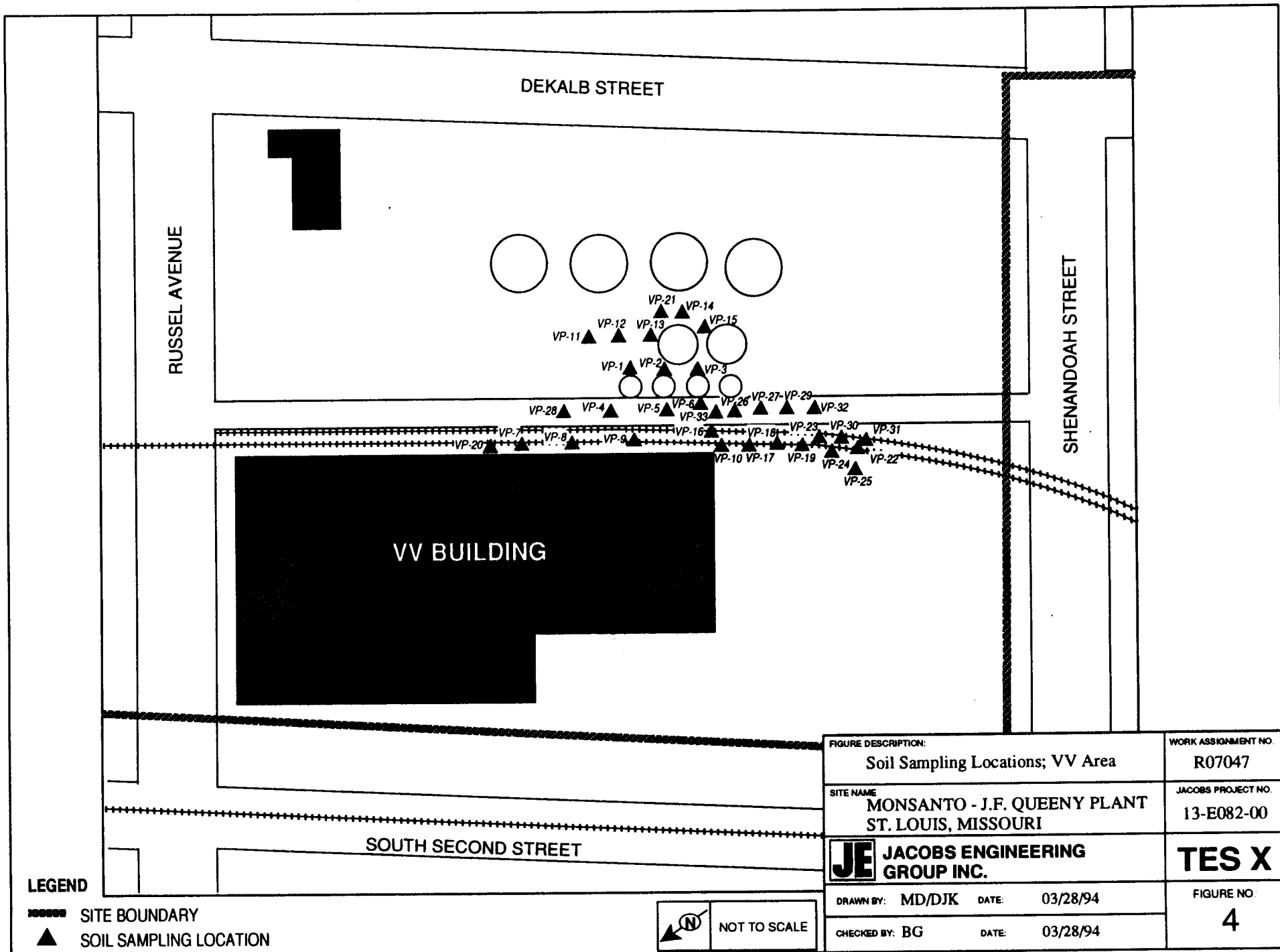
— SITE BOUNDARY



NOT TO SCALE

FIGURE DESCRIPTION		WORK ASSIGNMENT NO
SITE MAP		R07047
SITE NAME		JACOBS PROJECT NO
MONSANTO - J.F. QUEENY PLANT ST. LOUIS, MISSOURI		13-E082-00
JE JACOBS ENGINEERING GROUP INC.		TES X
DRAWN BY	MD/DJK	DATE 02/28/93
CHECKED BY	BG	DATE 02/28/93
		FIGURE NO
		2







LEGEND




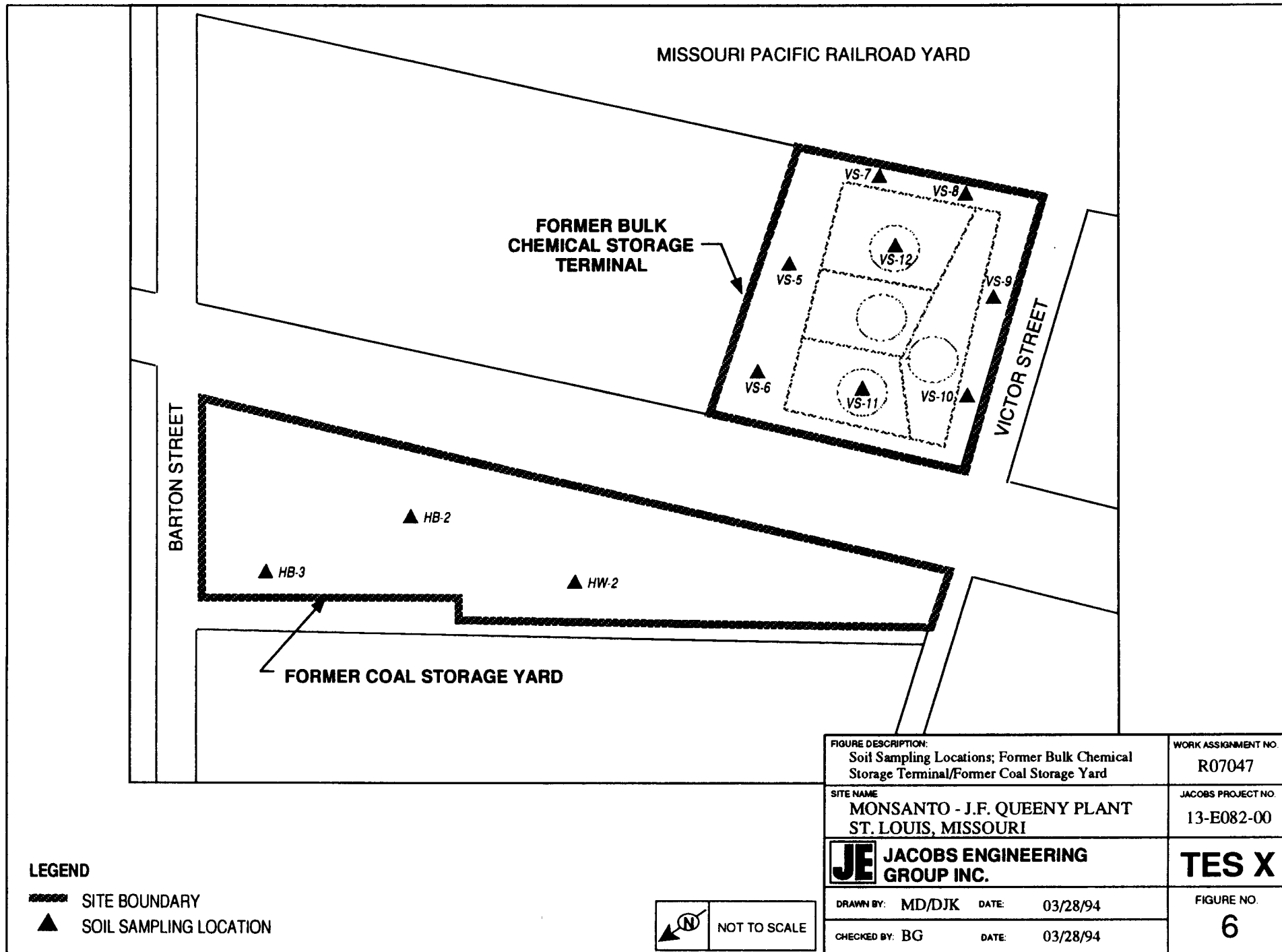
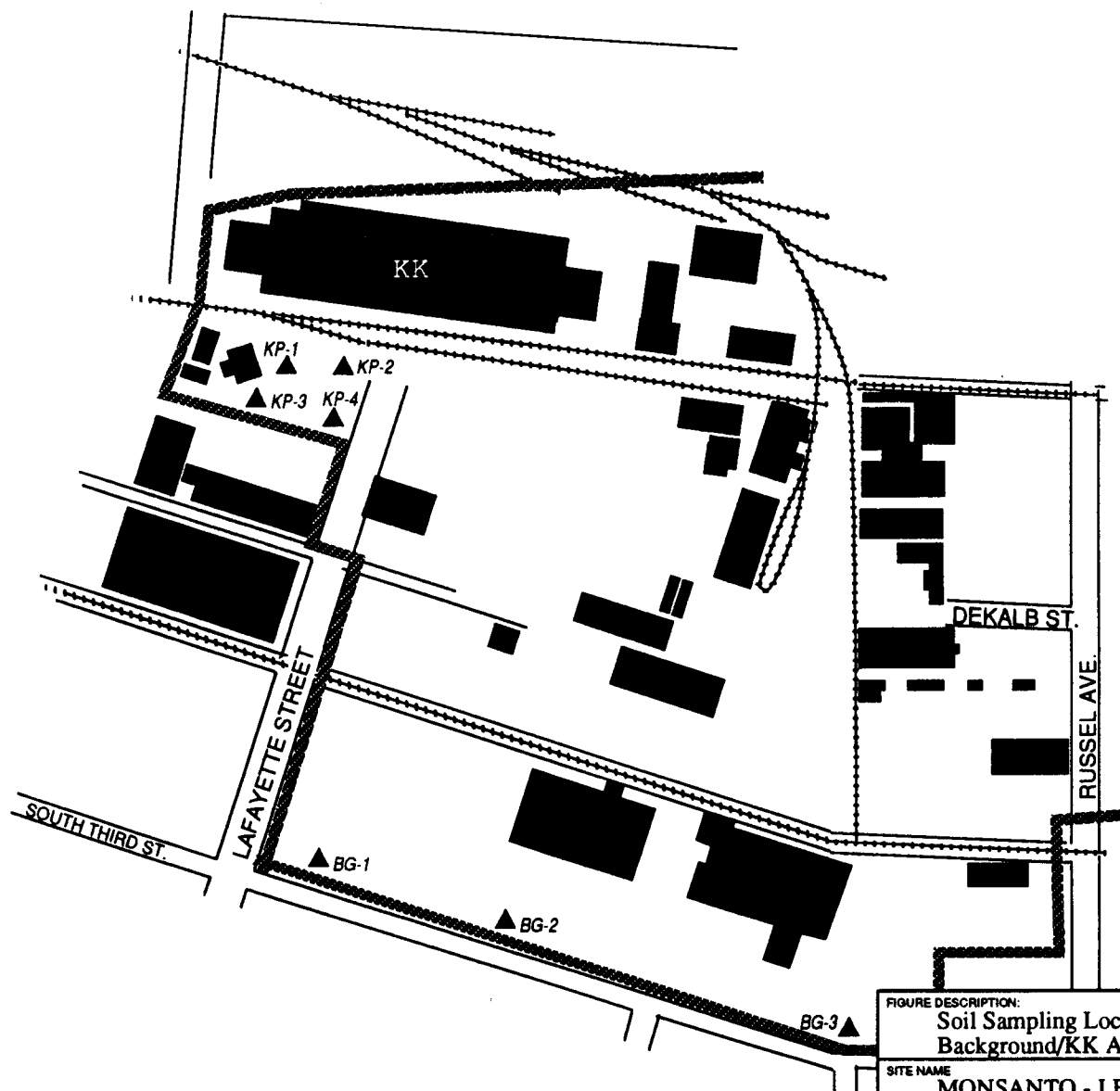
-  SITE BOUNDARY
-  MONITORING WELL OR OBSERVATION WELL
-  SOIL SAMPLING LOCATION

FIGURE DESCRIPTION Soil Sampling Locations; Boiler Slag Accumulation Pad/MW-20 Area		WORK ASSIGNMENT NO. R07047
SITE NAME MONSANTO - J.F. QUEENY PLANT ST. LOUIS, MISSOURI		JACOBS PROJECT NO. 13-E082-00
JE JACOBS ENGINEERING GROUP INC.		TES X
DRAWN BY: MD/DJK	DATE: 03/28/94	FIGURE NO. 5
CHECKED BY: BG	DATE: 03/28/94	





LEGEND

- SITE BOUNDARY
- SOIL SAMPLING LOCATION

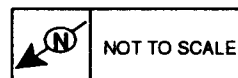



FIGURE DESCRIPTION: Soil Sampling Locations; Background/KK Area		WORK ASSIGNMENT NO. R07047
SITE NAME MONSANTO - J.F. QUEENY PLANT ST. LOUIS, MISSOURI		JACOBS PROJECT NO. 13-E082-00
 JACOBS ENGINEERING GROUP INC.		TES X
DRAWN BY: MD/DJK	DATE: 03/28/94	FIGURE NO. 7
CHECKED BY: BG	DATE: 03/28/94	

TABLES

TABLE 1
SITES MONITORED, SAMPLE SUMMARY

Site Monitored	Monsanto			EPA		
	Analyses	Preservation	Number of Locations*	Analyses	EPA Preservation	Number of Split Samples
Former Acetanilides/Railcar Unloading Area (Lasso™ Area)	Alachlor	cool	7	Alachlor	cool	1, plus 1 dup
Former Acetanilides/Railcar Unloading Area (Lasso™ Area)	Alachlor, VOCs	cool	8	Alachlor, VOCs	cool	7, plus 1 dup
Former Quarry	SVOCs, Metals	cool	4	SVOCs, VOCs, Alachlor, Metals	cool	3
Former Bulk Chemical Storage Terminal	SVOCs, VOCs, Metals, Sulfide	cool	8	SVOCs, VOCs, Alachlor, Sulfide	cool 1N zinc acetate (for sulfide)	2, plus 1 dup
Boiler Slag Accumulation Pad	PCBs, Metals	cool	10	PCBs, Metals	cool	2
Well MW-13 Area	SVOCs	cool	1	----	----	----
Well MW-20 Area	Cyanide	cool	3	Cyanide	cool	1
Building KK Area	VOCs	cool	4	VOCs	cool	2, plus 1 dup
Former Coal Storage Yard	VOCs	cool	3	VOCs	cool	1
Building VV Area	PCBs	cool	33	PCBs	cool	3, plus 1 dup
Background Location	Metals	cool	3	Metals	cool	1

* One to three samples were collected per location depending on depth to groundwater

TABLE 2
EPA SPLIT SAMPLES

EPA Sample Number	Monsanto Location Designation	Parameters Analyzed	Sampling Date
ARD53-001	AC-1-S	VOCs, Alachlor	March 9, 1994
ARD53-002	AC-3-S	VOCs, Alachlor	March 9, 1994
ARD53-003	AC-5-S	VOCs, Alachlor	March 9, 1994
ARD53-004	AC-8-S	VOCs, Alachlor	March 9, 1994
ARD53-005	AC-8-M	VOCs, Alachlor	March 9, 1994
ARD53-006	AC-8-D	VOCs, Alachlor	March 9, 1994
ARD53-012	AC-1-D	VOCs, Alachlor	March 9, 1994
ARD53-012-D	AC-1-D	VOCs, Alachlor	March 9, 1994
ARD53-014	AC-13-M	Alachlor	March 9, 1994
ARD53-014-D	AC-13-M	Alachlor	March 9, 1994
ARD53-016	QP-1-S	VOCs, Semivolatiles, Alachlor, Metals	March 9, 1994
ARD53-017	QP-2-M	VOCs, Semivolatiles, Alachlor, Metals	March 9, 1994
ARD53-018	QP-2-D	VOCs, Semivolatiles, Alachlor, Metals	March 9, 1994
ARD53-019	QP-12-M	VOCs, Semivolatiles, Alachlor, Sulfide	March 8, 1994
ARD53-020	VS-11-S	VOCs, Semivolatiles, Alachlor, Sulfide	March 8, 1994
ARD53-020-D	VS-11-S	VOCs, Semivolatiles, Alachlor, Sulfide	March 8, 1994
ARD53-026	BP-4	Metals, PCBs	March 8, 1994
ARD53-027	GP-20-AS	Metals, PCBs	March 8, 1994
ARD53-028	VP-6	PCBs	March 7, 1994
ARD53-029	VP-11	PCBs	March 7, 1994
ARD53-029-D	VP-11	PCBs	March 7, 1994
ARD53-031	VP-30	PCBs	March 11, 1994
ARD53-044	GP-20-CS	Cyanide	March 8, 1994
ARD53-046	HW-2-GP	VOCs	March 10, 1994
ARD53-047	KP-2-S	VOCs	March 10, 1994
ARD53-047-D	KP-2-S	VOCs	March 10, 1994
ARD53-049	KP-2-M	VOCs	March 10, 1994
ARD53-051	BG-2	Metals	March 10, 1994

TABLE 3
DEPTH TO BEDROCK AT THE QUARRY AREA

<u>Location</u>	<u>Depth to Bedrock (feet bgs)</u>
QP-1	58.1
QP-2	*
QP-3	18.5
QP-4	33.2

Notes:

Geoprobe™ sampler pushed to refusal

* Three attempts did not yield satisfactory refusal. The sampler continued to vary from vertical orientation, resulting in bent sampler rods after reaching approximately 48 feet bgs.

ATTACHMENTS

ATTACHMENT A

Photographs



PHOTOGRAPH NO. 1

Date: March 7, 1994

Time: 1310

Photographer: Bill Gresham

Direction of

Photograph: Northwest

Subject: Collection of soil sample at VP-4
Location: VV Area



PHOTOGRAPH NO. 2

Date: March 7, 1994

Time: 1350

Photographer: Bill Gresham

Direction of

Photograph: Southwest

Subject: GTI personnel collecting soil sample at VP-11
Location: VV Area

SITE NAME: Monsanto



Subject: Pushing sampler at VP-11
Location: VV Area

PHOTOGRAPH NO. 3

Date: March 7, 1994
Time: 1415
Photographer: Bill Gresham
Direction of
Photograph: Southwest



Subject: Sample collection activities
Location: VV Area

PHOTOGRAPH NO. 4

Date: March 7, 1994
Time: 1630
Photographer: Bill Gresham
Direction of
Photograph: North

SITE NAME: Monsanto



Subject: G&M and Monsanto personnel sampling VS-11
Location: Former Bulk Chemical Storage Area

PHOTOGRAPH NO. 5

Date: March 8, 1994
Time: 1045
Photographer: Bill Gresham
Direction of
Photograph: East



Subject: GTI personnel at VS-11
Location: Former Bulk Chemical Storage Area

PHOTOGRAPH NO. 6

Date: March 8, 1994
Time: 1050
Photographer: Bill Gresham
Direction of
Photograph: Northeast

SITE NAME: Monsanto



PHOTOGRAPH NO. 7

Date: March 8, 1994

Time: 1130

Photographer: Bill Gresham

Direction of

Photograph: North

Subject: Sampling at location VS-12
Location: Former Bulk Chemical Storage Area



PHOTOGRAPH NO. 8

Date: March 8, 1994

Time: 1440

Photographer: Bill Gresham

Direction of

Photograph: Southeast

Subject: Sampling activities at BP-4
Location: Boiler Slag Area

SITE NAME: Monsanto



PHOTOGRAPH NO. 9

Date: March 8, 1994

Time: 1645

Photographer: Bill Gresham

Direction of

Photograph: North

Subject: Geoprobe work at GP-20-C
Location: Boiler Slag Area



PHOTOGRAPH NO. 10

Date: March 9, 1994

Time: 0830

Photographer: Bill Gresham

Direction of

Photograph: South

Subject: Boring/sampling at AC-13
Location: Lasso Area

SITE NAME: Monsanto



Subject: GTI and G&M setup at AC-1
Location: Lasso Area

PHOTOGRAPH NO. 11

Date: March 9, 1994
Time: 1515
Photographer: Bill Gresham
Direction of
Photograph: East

ATTACHMENT B

Field Log Notes

ESTIMES

SECTION ①

7 MARCH 1994

The Oversight Manager (OM) Bill Gresham

Weather: Cloudy, sprinkles, (40°F) AM; breezy, cool (45°F) cloudy PM

PERSONNEL ON SITE

Name	Title	Company
Rich Koenig	Environmental Protection Tech	Monsanto
Jo Hanson	Project Manager	"
Troy Harlan	Intern/Co-op	"
Laurie Musiker	Hydrogeologist	Geraghty & Miller
Jamie Yates	Geologist	"
John Upcraft	Vice President	GeoTrace (GTI)
Mike Chenoweth	Geochemist	"

ACTIVITIES PLANNED

Following mobilization to the site, field personnel will attend a health and safety briefing. Staging activities will be performed, followed by commencement of sampling activities.

SECTION ②

0430 The OM left home to travel to the site.

0930 The OM arrived at the motel.

1000 Following check-in, the OM left the motel and proceeded to the site, immediately proceeding to the safety briefing with Geraghty & Miller and GTI personnel.

William W. Gresham

CONTINUED
TIMES

1045

William W. Cresson

7 MARCH 1994

The OM met with Monsanto, G&M and GTI personnel to plan work for this afternoon.

1130

The OM left the site with G&M and GTI personnel for lunch.

1200

Returned to site.

1215

Proceeded to the VV Area, where sampling locations were set up.

1245

Geoprobe soil sampling was commenced.

1310

PHOTO 1

Collection of soil sample at VP-4. View Northwest.

1330

Jo and Troy arrived at the site.

1350

PHOTO 2

Mike collecting soil sample at VP-11. View Southwest.

1355

The OM obtained split sample ARD53-028 from location VP-6.

1410

It was decided that, since recovery was relatively low, a stainless steel "macro sampler" would be utilized for sampling at VP-11.

1415

PHOTO 3

Pushing sampler at VP-11. View Southwest.

1435

The OM obtained split samples ARD53-029 and -029D from location VP-11.

27

CONTINUED
TIMES

1450

William W. Cresson

7 MARCH 19

After having discovered that their HNu (10.2 eV) PID was not working, G&M ordered a new one from Hazco.

NOTE: For today, GTI has 2 geoprobe vans on site with which they are collecting soil samples. They are pushing the probe to 3ft. bgs, collecting a soil sample in a sleeve of bis (2-ethylhexyl) phthalate, and moving on. Samples in this area are to be analyzed by Monsanto for PCBs on 24-hour turnaround. EPA samples will also be analyzed for PCBs. Monsanto samples are placed in 4oz. wide mouth jars, ~~PCB~~ EPA samples are placed in 8oz wide mouth jars.

1515

The OM left an update message with EPA WAM Pat Reitz, then spoke with her following communication with several at Jacobs office.

1630

PHOTO 4

Sample collection activities. View North.

NOTE: G&M decontaminated equipment using liquid in ^{DI} tap water wash and a ^{DI} distilled water rinse. The Geoprobe soil samplers are 1 1/2-inches in diameter (standard) and 2-inches in diameter (macro sampler) (all dimensions O.D. - I.D.s are approx. 1/8-inch smaller).

1730

All sampling completed in VV area for today. All personnel left the site.

CONTINUED

CONTINUED

SUMMARY

7 MARCH 1994 TIMES

Activities performed today included mobilization to the site, attendance of a safety briefing, and collection of soil samples at 20 locations at the VV Area (at a depth of 1-3 feet bgs). Split samples were obtained for EPA at VP-6 (ARD53-028) and VP-11 (ARD53-029, and -029 D).

William W. Gresham

SECTION ① *William W. Gresham* 8 MARCH 1994
The Oversight Manager (OM) Bill Gresham

Weather: cloudy, breezy, cold (35°F) AM; becoming partly mostly cloudy, temperature reaching 40°F

PERSONNEL ON SITE

<u>Name</u>	<u>Title</u>	<u>Company</u>
Rich Koenig	Environmental Protection Tech.	Monsanto
Troy Harlan	Intern/Co op	"
Laurie Musiker	Hydrogeologist	G & M
Jamie Yater	Geologist	"
Mike Chenoweth	Geochemist	GTI
John Upcraft	Vice-President	"

SECTION ②

ACTIVITIES PLANNED

Sampling of soil at the Boiler Slag Area will be performed, followed by other sampling.

SECTION ②

0630 The OM arrived at the site. Troy and Mike were already present.

0710 All proceeded to the Former Bulk Chemical Storage Area following preparation and discussion.

0740 Sampling commenced at the Former Bulk Chemical Storage Area.

0800 During sampling at locations VS-7 and VS-8, shallow samples were collected in the 3 feet to

CONTINUED
TIMES

William W. Creston

8 MARCH 1994

4 feet bgs interval; deeper samples were collected in the 6.5 feet to 7.5 feet bgs interval. Water was encountered at 8 feet bgs.

0815 The GTI vans relocated to VS-7 and VS-8.

0900 Jamie indicated that sampling intervals were ~2.0-2.5 ft bgs for shallow, 3.0-3.5-4.0 ft bgs for intermediate and 4.5-5.5 ft bgs for deep samples at locations VS-7 and VS-8.

0945 Sampling commenced at VS-11. Sampling interval 1.5-2.5 ft. bgs. EPA sample no. ARD53-020 and ARD53-020-D. Monsanto sample no. ARD53-020-VS-11-S.

1035 Sampling at VS-11-S complete.

1045 John moved to set up at VS-12.

PHOTOS

G&M and Monsanto personnel sampling VS-11-MI. View East.

1050 PHOTO 6
GTI at VS-11. View Northeast.

Note: Purple staining was observed in several samples between

1115 Jamie informed the CM that the intermediate sampling interval at VS-12 would be 2.5 to 4 ft bgs.

1125 Sampling commenced for Monsanto sample no.

CONTINUED
TIMES

William W. Creston

8 MARCH 1994

ARD53-020 VS-12I (EPA sample no. ARD53-019).

PHOTO 7

Sampling VS-12I. View North.

1135 Sampling for VS-12I complete.

1200 While the other personnel ^{completed} ~~continued~~ sampling the Former Bulk Chemical Storage Area, the CM left the site for lunch/errands.

1230 The CM returned to the site.

1245 Having completed work at the Former Bulk Chem Storage Area, the G&M, Monsanto and GTI personnel left the site for lunch.

The CM spoke by telephone to EPA WAM Pat Reit and other personnel at the Jacobs office.

1330 All personnel back at site.

1345 Proceeded to the Boiler Slag Area.

1405 The GTI rigs were set in place at BP-1 and BP-4. Monsanto will collect samples for PCBs only. EPA split samples will be obtained for PCBs and metals.

PHOTO 8

Sampling activities at BP-4. View Southeast.

The CM obtained sample ARD53-026 (BP-4).

CONTINUED
TIMES

1520 The CM prepared field blank ARD53-057. ^{8 MARCH 1994}

1535 The CM obtained split sample ARD53-027 from Monsanto (no. GP-20A5). Monsanto submitted for PCBs, cyanide; EPA to be analyzed for PCBs, metals.

1600 The CM prepared water trip blank ARD53-058F (pre-filled at EPA Region VII lab).

1610 The CM labeled soil trip blank ARD53-056F (prepared by EPA Region VII lab).

1645 PHOTO 9
Geoprobe work at GP-20-C View North.

1705 The CM obtained split sample ARD53-044 (Monsanto sample no. GP-20-C5). When GTI Sample interval = 3 ft. - 4 ft. hrs. When GTI went deeper than 4 ft, they hit water, so no deeper samples were collected.

1730 Following sample preparation, The CM left the site, preceded by GTI personnel and followed by G&M personnel.

SECTION (3) SUMMARY

Soil sampling was performed at the Former Bulk Chemical Storage Area, at the Boiler Slag Pad and adjacent to MW-20. EPA split samples were obtained in all 3 areas. *William W. Gresham*

TIMES

SECTION (1)

The Oversight Manager (OM) Bill Gresham

Weather: Cloudy, breezy, cold (35°F) AM; mostly cloudy, windy, cool (40°F) PM

PERSONNEL ON SITE

Name	Title	Company
Jo Hansen,	Project Manager	Monsanto
Rich Koenig,	Environmental Protection Tech	"
Troy Harlan,	Intern/Co-op	"
Laurie Musiker,	Hydrogeologist	Genshity Miller
Jamie Yoter,	Geologist	"
Mike Chenoweth,	Geochemist	GeoTrace (GT)
Brian Barrett,	Chemist	"

ACTIVITIES PLANNED

Sampling will proceed at the Quarry and Lasso Areas.

SECTION (2)

0650 The CM arrived at the site. G&M personnel were already present, preparing for sampling.

0705 Proceeded to the Lasso Area and toured it.

0800 Following an attempt to bore through at locate AC-11, GTI relocated to AC-13.

PHOTO 10

0830 Boring/sampling at AC-13. View South.

CONTINUED
TIMES

William W. Graham

9 MARCH 1994

0855

The CM obtained split samples ARD53-014 and ARD53-014-D from AC-13-M. The sampling interval is 6 ft - 7 ft bgs.

0850

Proceeded to location AC-15. Laurie and Brian arrived and cored those holes around the Lasso Area through which required boring through concrete.

~~0950~~

0915

Laurie and Brian proceeded to the area of MW-13.

0930

Laurie and Brian proceeded to the Old Quarry Area, to location QP-4.

0945

Mike and Jamie proceeded to AC-14.

1020⁰⁶

~~Laurie and Brian proceeded to the~~ Jamie and Mike proceeded to AC-16.

1130

The CM proceeded to the office to use the telephone. EPA WAM Pat Reitz was notified of today's progress.

1200

G&M and GTI personnel left the site for lunch.

1230⁰⁶

The CM left the site for lunch.

1240

The CM returned from lunch.

1300

G&M and GTI returned from lunch.

1330

All proceeded to the Lasso Area. Geoprobe

CONTINUED
TIMES

William W. Graham

9 MARCH 1994

sampling continued at AC-11 and AC-12.

1400

Brian and Laurie moved to the Old Quarry Area, location QP-1. (NOTE: At QP-4, bedrock was encountered at 33.2 ft. bgs.) ~~Jamie and Mike moved to~~

1510

Jamie and Mike moved to AC-1.

1515

~~PHASE II~~

GTI and G&M set up at AC 1 View East.

GTI began advancing the geoprobe at AC-1.

1530

The CM obtained sample no. ARD53-001 (Monsanto sample no. ARD53-AC-1-S). Both EPA and Monsanto samples will be submitted for VOC and Alachlor analyses (1 ft. - 2 ft. bgs).

1535

The CM obtained EPA sample nos. ARD53-01 and ARD53-012-D (Monsanto sample no. AC-1 for VOCs and Alachlor (2 ft. - 4 ft. bgs). Water was encountered at approx. 4.5 ft. bgs.

1540

Jamie and Mike relocated to AC-2.

Laurie indicated that bedrock was encountered at 58.1 ft. bgs.

1555

The CM proceeded to QP-2, where sampling was underway.

1600

The CM labeled soil VOA trip blank ARD53

CONTINUED
TIMES

9 MARCH 1994

055.

- 1605 Sampling of GP-2-S (EPA sample no. ARD53-016) complete. Sampled for VOCs, semivolatiles, ~~PEB~~ Alachlor and Metals. Sampling interval 1ft - 3ft. bgs.
- 1615 The CM obtained sample no. ARD53-017 (Monsanto sample no. GP-2-I). Sample interval 5ft - 7ft bgs.
- 1620 The CM obtained sample no. ARD53-018 (Monsanto sample no. GP-2-D). Sample interval 4ft - 11ft bgs.
- 1630 The CM obtained sample no. ARD53-002 (Monsanto sample no. AC-3-S) Sample interval 2ft - 4.5ft bgs.
- 1655 Jamie and Mike relocated to AC-4. Laurie and Brian relocated to GP-3. Laurie indicated that, at GP-3, the Geoprobe had been advanced to 48ft bgs. While apparently in weathered bedrock, GI decided to pull out due to the feel. After completing the pull-out, it was discovered that 5 reels had been lost.
- 1720 Jamie and Mike relocated to AC-5, due to obstructions hit at AC-4.
- 1730 PHOTO 12
Sampling activities at AC-5. View Northwest.
William A. Cushman

CONTINUED
TIMES

9 MARCH 1994

- 1735 The CM obtained sample no. ARD53-003 (Monsanto sample no. AC-5-S) Sample interval 3ft - 5ft. bgs. Jamie indicated that water and refusal were encountered at 5ft. bgs.
- 1740 Jamie and Mike relocated to AC-7.
- 1800 Laurie and Brian relocated to AC-6.
- 1820 Jamie and Mike relocated to AC-8.
- 1830 PHOTO 13
Sampling activities at AC-8. View Northwest.
- 1835 The CM obtained sample no. ARD53-004 (Monsanto sample no. AC-8-S) Sample interval 1ft - 34ft bgs (VOCs, Alachlor)
- 1840 The CM obtained sample no. ARD53-005 (Monsanto sample no. AC-8-M) Sample interval 3ft - 5ft. bgs.
- 1850 The CM obtained sample no. ARD53-016 (Monsanto sample no. AC-8-D) Sample interval 5ft - 7ft. bgs. Water was encountered at approx. 7.5ft. bgs.
- 1930 Following sample preparation, the CM left the site. GDM personnel were still present.

SECTION ③
SUMMARY

CONTINUED

9 MARCH 1994

TIMES

Activities performed today included the completion of sampling at The Lasso Area and sampling at one location adjacent to MW-13 and four of the locations associated with The Old Quarry Area.

William W. Gresham

SECTION (1) William W. Gresham 10 MARCH 1994
The Oversight Manager (OM) Bill Gresham

Weather: Clear, breezy, cold (35°F) AM; becoming partly cloudy, breezy, warmer (50°F) PM

PERSONNEL ON SITE

Name	Title	Company
Jo Hanson,	Project Manager	Monsanto
Rich Koenig,	Environmental Protection Tech	"
Troy Harkin,	Intern/Co-op	"
Laurie Musiker,	Hydrogeologist	Geraghty & Miller ^{CO}
Jamie Yater,	Geologist	"
Mike Chenoweth,	Geochemist	GeoTrace (GTI)
Brian Barrett,	Chemist	"
John Upcraft,	Vice-President	"

ACTIVITIES PLANNED

Sampling will be completed at the Old Quarry Area. The KK Area, the Coal Storage yard and the background location will be sampled.

SECTION (2)

SEMAP

0650 The OM arrived at the site. G&M and Monsanto personnel were already present.

0700 GTI personnel arrived at the site.

0720 While Jamie and Mike proceeded to the do PC sampling at the VV Building and the Boiler Slog Area, Laurie, Brian, Troy and the OM proceeded to the Coal Storage Area.

CONTINUED
TIMES

0800

William W. Gresham

10 MARCH 1994

The CM obtained sample ARD53-046 (Monsanto sample no. HW-2-CP) for VOCs. The sample interval was 14ft-16ft bgs.

0815

Sampling relocated to HB-2.

0835

PHOTO 14

Sampling activities at HB-2 View Northeast.

0915

~~0845~~

The CM proceeded to the plant to use the telephone.

1000

Following completion of sampling at the Coal Storage Yard, Laurie, Troy and Brian returned to the plant.

1010

All proceeded to the Boiler Slag Area to perform further PCB sampling.

1100

Due to obstructions encountered at approx. 2.5ft bgs, further sampling at the Boiler Slag Area was aborted. All proceeded to the KK Area.

1125

The CM obtained samples ARD53-047 and ARD53-047-D (Monsanto sample KP-2-S) for VOCs. Sample interval was 1ft to 3ft bgs.

1145

PHOTO 15

Sampling activities at KP-2 View South.

1155

The CM obtained sample ARD53-049 (Monsanto sample no. KP-2-M). Sample interval 4ft.-6ft. bgs. Water was encountered at 7ft. bgs.

11

CONTINUED
TIMES

1200

William W. Gresham

10 MARCH 1994

G&M, GTI and Monsanto personnel left the site for lunch. One GTI van was down with mechanical problems. The CM remained at the site to prepare samples for shipment.

1300

G&M, GTI and Monsanto personnel returned to the site.

1330

John Upcraft of GTI arrived to fix the Geoprobe. The CM discussed the PCB sampling at the Boiler Slag ^{with Laurie} area. All screening results came back < 25ppm. The highest result was 23.6ppm at location GP-20-B. It was decided that verification samples would be collected at GP-20-B, GP-20-A, BP-3 and BP-4.

1450

PHOTO 16

Sampling at the KK Area View Northwest.

1510

Jamie indicated that water had been encountered at 7ft. at location KP-4, so we agreed to sampling from 3ft-5ft bgs.

1530

Laurie, Mike, Troy and the CM proceeded to the parking lot to collect background samples.

1540

Sampling at BG-2 commenced.

1555

PHOTO 17

Sampling at BG-2 View South.

1610

PHOTO 18

Compositing soil at BG-2 View South.

CONTINUED
TIMES

William W. Gresham

10 MARCH 1994

1615 Sampling at BG-2 complete. The sampling interval was 0ft - 12ft bgs. Sample material was composited.

1620 The CM obtained sample ARD53-C51 (Monsanto sample no. BG-2) for metals analysis. This is a background sample.

1700 ~~The CM proceeded to~~
PHOTO 19
Sampling at BG-1 View North.

1710 The CM proceeded to the Boiler Slag Area. Jamie and Brian were setting up to collect a sample at BP-4.

1745 Sampling complete at BP-4. All proceeded to the Lasso Area, where Jamie and Brian set up to sample at AC-9.

1750 The CM proceeded to BG-3, where sampling was nearly complete. Laurie indicated that the sampling interval stopped at 12ft bgs. at all locations (BG) due to extreme clay stiffness below that depth.

1805 Laurie, Mike, and the CM returned to the plant.

1830 Following sample preparation and documentation the CM left the site. GDM personnel were still present.

SECTION ③

13

10 MARCH 1994

CONTINUED

SUMMARY

Sampling was performed at the Coal Storage Yard (for VOCs), the VV Building - step out sampling (PCBs), the KK Area (VOCs), three background locations (metals) and location AC at the Lasso Area (Arochlor, VOCs). An attempt at step-cut sampling at the Boiler Slag Area was aborted when obstructions prevented advancement of the sampler. EPA split sample obtained so far were shipped to the EPA Region VII Laboratory.

William W. Gresham

TIMES

SECTION (1) William W. Gresham 11 MARCH 1994
The Oversight Manager (OM) Bill Gresham

Weather: Clear, breezy, cool (40°F AM; warming to 60°F PM)

PERSONNEL ON SITE

Name	Title	Company
Jo Hansen	Project Manager	Monsanto
Rich Keenig	Environmental Protection Tech	"
Troy Harlan	Intern/Co-op	"
Jamie Yates	Geologist	Geraghty & Miller (G&M)
John Upcraft	Vice President	Geoprobe (GTI)
Mike Chenoweth	Geochemist	"
Brian Barrett	Chemist	"
Alan Faust	Hydrogeologist	Monsanto
Colin Walker		Geoprobe

SECTION (2)

0900 With the Van battery dead, The OM called AA for wrecker service

0920 AAA arrived.

0940 Van started.

0950 The CM arrived at the site. Geoprobe was conducting a demonstration of logging technology.

1030 PHOTO 19
Geoprobe logging demonstration View Southeast

1050 The CM proceeded to the VV Area, where Jamie,

CONTINUED
TIMES

11 MARCH 1994

Mike and Troy were ready to begin deeper (Phase II) PCB sampling.

1145 PHOTO 20

Geoprobe sampling at VP-30. View Southwest

1150 The CM obtained sample ARD53-231 for PCBs (Monsanto sample VP-30). Sample interval: 1ft. - 3ft lgs.

1200 The CM proceeded to the office to use the telephone.

1230 Following communication with EPA WAM/Pet Reit and the Jacobs office, and farewells to G&M, Monsanto and GTI personnel, the CM left the site.

SECTION (3) SUMMARY

Following preparation for travel, parties at the plant attended a demonstration stage by Geoprobe. Deeper sampling at the VV Area (PCBs) was performed. Demobilization from the site and travel occurred.

William W. Gresham

ATTACHMENT C

Chain of Custody/Field Sheets

ACTIVITY LEADER(Print) Pat Deitz		NAME OF SURVEY OR ACTIVITY Monterey - J.E. Queeny		DATE OF COLLECTION March 1994 DAY MONTH YEAR			SHEET 1 of 1				
CONTENTS OF SHIPMENT											
SAMPLE NUMBER	TYPE OF CONTAINERS					SAMPLED MEDIA					RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	1L CUBITAINER	100Z BOTTLE	10Z BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	water	soil	sediment	dust	other	
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
ARD53-026		1					X				
ARD53-029		1					X				
ARD53-029-D		1					X				
ARD53-019		3			1		X				
ARD53-020		3			1		X				
ARD53-020-D		3			1		X				
ARD53-026		2					X				
ARD53-027		2					X				
ARD53-044		1					X				
ARD53-045		1					X				
ARD53-056-F					1		X				
ARD53-057	2		3		1		X				
ARD53-058-F					1		X				
NO MORE SAMPLES											
DESCRIPTION OF SHIPMENT						MODE OF SHIPMENT					
28 PIECE(S) CONSISTING OF BOX(ES)						X COMMERCIAL CARRIER: Federal Express					
1 ICE CHEST(S); OTHER						COURIER					
						SAMPLER CONVEYED 1758779724 (SHIPPING DOCUMENT NUMBER)					
PERSONNEL CUSTODY RECORD											
RELINQUISHED BY (SAMPLER)		DATE		TIME		RECEIVED BY		REASON FOR CHANGE OF CUSTODY			
William J. Deitz		3/2/94		1800							
<input checked="" type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED						<input checked="" type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED					
RELINQUISHED BY		DATE		TIME		RECEIVED BY		REASON FOR CHANGE OF CUSTODY			
<input checked="" type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED											
RELINQUISHED BY		DATE		TIME		RECEIVED BY		REASON FOR CHANGE OF CUSTODY			
<input checked="" type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED											

**CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

ACTIVITY LEADER(Print) <u>Pat Reitz</u>	NAME OF SURVEY OR ACTIVITY <u>Monsanto J.F. Queeny</u>	DATE OF COLLECTION <u>19</u> <u>March</u> <u>1994</u> DAY MONTH YEAR	SHEET <u>1</u> of <u>1</u>
--	---	--	-------------------------------

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS					SAMPLED MEDIA					RECEIVING LABORATORY REMARKS OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc)
	CUBITAINER	<u>607</u> BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	water	soil	sediment	dust	other	
		NUMBERS OF CONTAINERS PER SAMPLE NUMBER									
ARD53-001		1			1		X				
ARD53-002		1			1		X				
ARD53-003		1			1		X				
ARD53-004		1			1		X				
ARD53-005		1			1		X				
ARD53-006		1			1		X				
ARD53-012		1			1		X				
ARD53-012-D		1			1		X				
ARD53-014		1			1		X				
ARD53-014-D		1			1		X				
ARD53-016		3			1		X				
ARD53-017		3			1		X				
ARD53-018		3			1		X				
ARD53-046					1		X				
ARD53-047					1		X				
ARD53-047-D					1		X				
ARD53-049					1		X				
ARD53-053-F					1		X				

DESCRIPTION OF SHIPMENT

MODE OF SHIPMENT

35 PIECE(S) CONSISTING OF _____ BOX(ES)
1 ICE CHEST(S); OTHER _____

☒ COMMERCIAL CARRIER: Federal Express
 _____ COURIER
 _____ SAMPLER CONVEYED
1752779734⁸⁶
 (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER) <u>William H. Grisham</u>	DATE <u>3/10/94</u>	TIME <u>1230</u>	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
<input checked="" type="checkbox"/> SEALED UNSEALED <input type="checkbox"/>			<input type="checkbox"/> SEALED UNSEALED <input type="checkbox"/>	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
<input type="checkbox"/> SEALED UNSEALED <input type="checkbox"/>			<input type="checkbox"/> SEALED UNSEALED <input type="checkbox"/>	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
<input type="checkbox"/> SEALED UNSEALED <input type="checkbox"/>			<input type="checkbox"/> SEALED UNSEALED <input type="checkbox"/>	

ACTIVITY LEADER(Print) Pat Reitz		NAME OF SURVEY OR ACTIVITY Monsanto - Queeny		DATE OF COLLECTION 10 DAY March MONTH 1994 YEAR			SHEET 1 of 1				
CONTENTS OF SHIPMENT											
SAMPLE NUMBER	TYPE OF CONTAINERS					SAMPLED MEDIA				RECEIVING LABORATORY REMARKS: OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)	
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	water	soil	sediment	dust		other
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
ARD53-031		1					X				
ARD53-051		1					X				
NOTHING FOLLOWS											
DESCRIPTION OF SHIPMENT						MODE OF SHIPMENT					
2 PIECE(S) CONSISTING OF _____ BOX(ES)						_____ COMMERCIAL CARRIER: _____					
1 ICE CHEST(S); OTHER _____						_____ COURIER					
						X SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER) _____					
PERSONNEL CUSTODY RECORD											
RELINQUISHED BY (SAMPLER)		DATE	TIME	RECEIVED BY		REASON FOR CHANGE OF CUSTODY					
William W. Gush		7/10/94	11:10	William W. Gush		Change					
<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED				<input type="checkbox"/> SEALED <input checked="" type="checkbox"/> UNSEALED							
RELINQUISHED BY		DATE	TIME	RECEIVED BY		REASON FOR CHANGE OF CUSTODY					
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED				<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED							
RELINQUISHED BY		DATE	TIME	RECEIVED BY		REASON FOR CHANGE OF CUSTODY					
<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED				<input type="checkbox"/> SEALED <input type="checkbox"/> UNSEALED							

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Y: 94 ACTNO: ARD53 SAMNO: 001 QCC: _ MEDIA: SOIL PL: DONA, BOB

CTIVITY DES: MONSANTO, QUEENY PLANT

REF LATITUDE: _ _ _

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

PT: LONGITUDE: _ _ _

SAMPLE DES: AC-1-S

LOCATION: _ _ _ MO

DATE

TIME

FROM REF PT

ASE/BATCH/SMO: _ _ _

LAB: _

BEG: 3/9/94

15:30

EAST: _

TORRET/AIRS NO: _ _ _

END: _ _ _

_: _

NORTH: _

DOWN: _

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

-40 ML VIALS

COOL (4 C)

SV

SOIL VOLATILES

OZ GLASS

COOL (4 C)

SP68

ALACHLOR

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ OPERABLE UNIT: _

1ft.-2ft. bags

SAMPLE COLLECTED BY : Bill Dushen

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Y: 94 ACTNO: ARD53 SAMNO: 002 QCC: _ MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT
LOCATION: ST. LOUIS

REF LATITUDE: _ _ _

MO PROJECT NUM: A60

PT: LONGITUDE: _ _ _

SAMPLE DES: ^{AC} AC-3-S

LOCATION: _ _ _

MO

DATE

TIME

FROM REF PT

BASE/BATCH/SMO: _ _ _

LAB: _

BEG: 3/9/94

16:30

EAST: _

WET/AIRS NO: _

END: _ _ _

_: _

NORTH: _

DOWN: _

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

40 ML VIALS

COOL (4 C)

SV

SOIL VOLATILES

OZ GLASS

COOL (4 C)

SP68

ALACHLOR

REMARKS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ OPERABLE UNIT: _

2ft-4.5ft. bgs.

SAMPLE COLLECTED BY : Bill Chisholm

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 94 ACTNO: ARD53 SAMNO: 003 QCC: _ MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT
LOCATION: ST. LOUIS

MO PROJECT NUM: A60

REF LATITUDE: _ _ _

PT: LONGITUDE: _ _ _

SAMPLE DES: AC-5-S

LOCATION: _ _ _ MO

CASE/BATCH/SMO: _ _ _

STORET/AIRS NO: _ _ _

LAB: _

DATE TIME FROM REF PT
BEG: 3/9/94 17:35 EAST: _ _
END: _ _ _ : _ NORTH: _ _
DOWN: _ _

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV	SOIL VOLATILES
8 OZ GLASS	COOL (4 C)	SP68	ALACHLOR

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ _ _ OPERABLE UNIT: _ _ _

3 ft. - 5 ft. bgs.

SAMPLE COLLECTED BY : Bill Craska

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 94 ACTNO: ARD53 SAMNO: 004 QCC: _ MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT

REF LATITUDE: _ _ _

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

PT: LONGITUDE: _ _ _

SAMPLE DES: AC-E-S

LOCATION: _ _ _ MO

DATE

TIME

FROM REF

PT

CASE/BATCH/SMO: _ _ _ / _ _ _

LAB: _ _ _

BEG: 3/9/94

16:35

EAST: _ _ _

STORET/AIRS NO: _ _ _

END: _ _ _

_ _ _

NORTH: _ _ _

DOWN: _ _ _

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

1-40 ML VIALS

COOL (4 C)

SV

SOIL VOLATILES

1 OZ GLASS

COOL (4 C)

SP68

ALACHLOR

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ _ _ OPERABLE UNIT: _ _ _

1ft.-3ft. bgs

SAMPLE COLLECTED BY :

Bili Cisth

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Y: 94 ACTNO: ARD53 SAMNO: 005 QCC: _ MEDIA: SOIL PL: DONA, BOB

CTIVITY DES: MONSANTO, QUEENY PLANT
OCATION: ST. LOUIS

REF LATITUDE: _ _ _

MO PROJECT NUM: A60 PT: LONGITUDE: _ _ _

AMPLE DES: AC-E-M

OCATION: _ _ _ MO

DATE TIME FROM REF PT

ASE/BATCH/SMO: _ _ _

BEG: 3/9/94 16:40 EAST: _ _ _

TRET/AIRS NO: _ _ _

LAB: _ _ _

END: _ _ _ NORTH: _ _ _

DOWN: _ _ _

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
-40 ML VIALS	COCL (4 C)	SV	SOIL VOLATILES
OZ GLASS	COOL (4 C)	SP68	ALACHLOR

OMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ _ _ OPERABLE UNIT: _ _ _

3 ft. 5 ft. bgs

MPLE COLLECTED BY : Bill Cichon

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Y: 94 ACTNO: ARD53 SAMNO: 006 QCC: _ MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT

REF LATITUDE: _ _ _

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

PT: LONGITUDE: _ _ _

SAMPLE DES: AC-E-D

LOCATION: _ _ _ MO

DATE TIME FROM REF PT

BASE/BATCH/SMO: _ _ _

LAB: _

BEG: 3/9/94

18:51

EAST: _

FORET/AIRS NO: _

END: _ _ _

: _

NORTH: _

DOWN: _

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

-40 ML VIALS

COOL (4 C)

SV

SOIL VOLATILES

OZ GLASS

COOL (4 C)

SP68

ALACHLOR

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ OPERABLE UNIT: _

5ft. - 7ft. bgs

SAMPLE COLLECTED BY :

Bill [signature]

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Y: 94 ACTNO: ARD53 SAMNO: 012 QCC: _ MEDIA: SOIL PL: DONA, BOB

CTIVITY DES: MONSANTO, QUEENY PLANT

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

REF LATITUDE: _ _ _

PT: LONGITUDE: _ _ _

SAMPLE DES: AC-1-D

LOCATION: _ _ _

MO

DATE

TIME

FROM REF PT

BASE/BATCH/SMO: _ _ _

BEG: 3/9/94

15:35

EAST: _ _ _

STORET/AIRS NO: _ _ _

LAB: _ _ _

END: _ _ _

NORTH: _ _ _

DOWN: _ _ _

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

10 ML VIALS

COOL (4 C)

SV

SOIL VOLATILES

OZ GLASS

COOL (4 C)

SP68

ALACHLOR

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ _ _ OPERABLE UNIT: _ _ _

2ft.-4ft. bgs.

SAMPLE COLLECTED BY : Bill C. Smith

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 94 ACTNO: ARD53 SAMNO: 012⁶⁵ QCC: D MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

REF LATITUDE: _____

PT: LONGITUDE: _____

SAMPLE DES: AC-1-D

LOCATION: _____

MO

DATE

TIME

FROM REF PT

CASE/BATCH/SMO: _____

LAB: _____

BEG: 3/9/94 15:35

EAST: _____

STORET/AIRS NO: _____

END: _____

NORTH: _____

DOWN: _____

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

1-40 ML VIALS

COOL (4 C)

SV

SOIL VOLATILES

1 OZ GLASS

COOL (4 C)

SP68

ALACHLOR

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _____ OPERABLE UNIT: _____

2 ft. - ~~2~~ 4 ft. bgs

SAMPLE COLLECTED BY : Bill Cushman

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Y: 94 ACTNO: ARD53 SAMNO: 014 QCC: _ MEDIA: SOIL PL: DONA, BOB

CTIVITY DES: MONSANTO, QUEENY PLANT

REF LATITUDE: _ _ _

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

PT: LONGITUDE: _ _ _

AMPLE DES: AC-13-M

LOCATION: _ _ _

MO

DATE

TIME

FROM REF PT

ASE/BATCH/SMO: _ _ _

LAB: _

BEG: 3/7/94 08:35

EAST: _

FORET/AIRS NO: _ _ _

END: _ _ _

NORTH: _

DOWN: _

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

OZ GLASS

COOL (4 C)

SP68

ALACHLOR

MENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ OPERABLE UNIT: _

6-7 ft bgs

AMPLE COLLECTED BY :

Bill Cook

CRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 94 ACTNO: ARD53 SAMNO: 015 QCC: D MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT
LOCATION: ST. LOUIS

REF LATITUDE:

MO PROJECT NUM: A60 PT: LONGITUDE:

SAMPLE DES: AC-13-M

LOCATION: MO

DATE TIME FROM REF PT

CASE/BATCH/SMO:

BEG: 3/9/94 06:35 EAST:

TORET/AIRS NO:

LAB:

END: : NORTH:

DOWN:

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

OZ GLASS

COOL (4 C)

SP68

ALACHLOR

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

6-7 ft bgs

SAMPLE COLLECTED BY : Bill Glendon

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

ACTNO: ARD53 SAMNO: 016 QCC: _ MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT
LOCATION: ST. LOUIS

MO PROJECT NUM: A60

REF LATITUDE: _ _ _

PT: LONGITUDE: _ _ _

SAMPLE DES: BP-1-~~D~~⁹

LOCATION: _____

MO

DATE

TIME

FROM REF PT

CASE/BATCH/SMO: _____

LAB: _____

BEG: 3/9/94 15:55

EAST: _____

CTORET/AIRS NO: _____

END: 16:05

NORTH: _____

DOWN: _____

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

LASS

ICED

SS

SEMIVOLATILES

LASS

ICED

SM

METALS

2-40 ML VIALS

COOL (4 C)

SV

SOIL VOLATILES

~ OZ GLASS

COOL (4 C)

SP68

ALACHLOR

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _____ OPERABLE UNIT: _____

1ft.-3ft. bgs

SAMPLE COLLECTED BY : Bill Craven

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 94 ACTNO: ARD53 SAMNO: 017 QCC: _ MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT
LOCATION: ST. LOUIS

REF LATITUDE: _ _ _

MO PROJECT NUM: A60 PT: LONGITUDE: _ _ _

SAMPLE DES: GP-2-I

LOCATION: _ _ _ MO

DATE TIME FROM REF PT

CASE/BATCH/SMO: _ _ _

BEG: 3/9/94 16:15 EAST: _ _ _

STORET/AIRS NO: _ _ _

LAB: _ _ _ END: _ _ _ NORTH: _ _ _

DOWN: _ _ _

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
GLASS	ICED	SS	SEMIVOLATILES
GLASS	ICED	SM	METALS
2-40 ML VIALS	COOL (4 C)	SV	SOIL VOLATILES
1 OZ GLASS	COOL (4 C)	SP68	ALACHLOR

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ _ _ OPERABLE UNIT: _ _ _

5 ft. - 7 ft. bgs

SAMPLE COLLECTED BY : Bill Chesher

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

RY: 94 ACTNO: ARD53 SAMNO: 018 QCC: _ MEDIA: SOIL PL: DONA, BOB

CTIVITY DES: MONSANTO, QUEENY PLANT
LOCATION: ST. LOUIS

REF LATITUDE: _ _ _

MO PROJECT NUM: A60

PT: LONGITUDE: _ _ _

AMPLE DES: GP-2-D

LOCATION: _ _ _

MO

DATE

TIME

FROM REF PT

CASE/BATCH/SMO: _ _ _

BEG: 3/9/9416:20

EAST: _ _ _

TRET/AIRS NO: _ _ _

LAB: _ _ _

END: _ _ _

NORTH: _ _ _

DOWN: _ _ _

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS

ICED

SS

SEMIVOLATILES

GLASS

ICED

SM

METALS

-40 ML VIALS

COOL (4 C)

SV

SOIL VOLATILES

OZ GLASS

COOL (4 C)

SP68

ALACHLOR

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ _ _ OPERABLE UNIT: _ _ _

9ft. - 11ft. bgs.

AMPLE COLLECTED BY :

Bill Cushman

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 94 ACTNO: ARD53 SAMNO: 019 QCC: _ MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT REF LATITUDE: _ _ _
LOCATION: ST. LOUIS MO PROJECT NUM: A60 PT: LONGITUDE: _ _ _

SAMPLE DES: VS-12I DATE TIME FROM REF PT
LOCATION: _ MO BEG: 3/8/94 11:25 EAST: _
CASE/BATCH/SMO: _/_/_ LAB: _ END: 11:35 NORTH: _
FORET/AIRS NO: _ DOWN: _

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
GLASS	ICED	SS	SEMIVOLATILES
GLASS	ICED	SM	METALS ALACHLOR
2-40 ML VIALS	COOL (4 C)	SV	SOIL VOLATILES
GLASS	NONE	ST13	SULFIDE

5 ml Zinc Acetate as preservative

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ OPERABLE UNIT: _

2.5 ft - 4.0 ft bgs

SAMPLE COLLECTED BY : Bill Gresham

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 94 ACTNO: ARD53 SAMNO: 020 QCC: MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT REF LATITUDE:
LOCATION: ST. LOUIS MO PROJECT NUM: A60 PT: LONGITUDE:

SAMPLE DES: 15-11-S DATE TIME FROM REF PT
LOCATION: MO BEG: 3/8/94 09:45 EAST:
CASE/BATCH/SMO: LAB: END: 10:25 NORTH:
TOWNET/AIRS NO: DOWN:

ANALYSIS REQUESTED:
CONTAINER PRESERVATIVE MGP NAME
ASS ICED SS SEMIVOLATILES
ASS ICED ~~SM~~ ^{MS} ~~PL~~ ⁸ METALS ALACHLOR
2-40 ML VIALS COOL (4 C) SV SOIL VOLATILES
ASS NONE ST13 SULFIDE 5ml Zinc Acetate as preservative

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: OPERABLE UNIT:

1.5 ft - 2.5 ft bgs

SAMPLE COLLECTED BY : Bill Graham

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Y: 94 ACTNO: ARD53 SAMNO: 020 QCC: D MEDIA: SOIL PL: DONA, BOB

CTIVITY DES: MONSANTO, QUEENY PLANT

REF LATITUDE: _ _ _

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

PT: LONGITUDE: _ _ _

SAMPLE DES: VS-11-S

LOCATION: _ _ _ MO

DATE

TIME

FROM REF PT

ASE/BATCH/SMO: _ _ _

MO

BEG: 3/8/94

09:45

EAST: _ _ _

FORET/AIRS NO: _ _ _

LAB: _ _ _

END: _ _ _

10:25

NORTH: _ _ _

DOWN: _ _ _

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS

ICED

SS

SEMIVOLATILES

GLASS

ICED

SM-518

METALS ALACHLOR

-40 ML VIALS

COOL (4 C)

SV

SOIL VOLATILES

GLASS

NONE

ST13

SULFIDE

5ml Zinc Acetate as preservative

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ _ _ OPERABLE UNIT: _ _ _

1.5ft. - 2.5ft. bgs

SAMPLE COLLECTED BY :

Bill Graham

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Y: 94 ACTNO: ARD53 SAMNO: 026 QCC: _ MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT

REF LATITUDE: _ _ _

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

PT: LONGITUDE: _ _ _

SAMPLE DES: BP-4

DATE

TIME

FROM REF PT

LOCATION: _ _ _ MO

BEG: 3/8/94 14:40

EAST: _ _ _

CASE/BATCH/SMO: _ _ _ / _ _ _

LAB: _ _ _

END: _ _ _ / _ _ _

NORTH: _ _ _

CORET/AIRS NO: _ _ _

DOWN: _ _ _

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS

ICED

SM

METALS

GLASS

ICED

S16

PCB'S - G. BEEMONT

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ _ _ OPERABLE UNIT: _ _ _

1ft. - 3ft. bgs.

SAMPLE COLLECTED BY : Bill Coker

FIELD SHEET

FY: 94 ACTNO: ARD53 SAMNO: 027 QCC: _ MEDIA: SOIL PL: DONA, BOB

SAMPLE DES: 6P-20AS
LOCATION: _____ MO _____
CASE/BATCH/SMO: _____ LAB: _____
STORET/AIRS NO: _____
DATE 3/8/94 TIME 15:35 FROM REF PT
BEG: _____ EAST: _____
END: _____ NORTH: _____
DOWN: _____

CONTAINER	PRESERVATIVE	MGP	NAME
GLASS	ICED	SM	METALS
GLASS	ICED	S16	PCB'S - G. BEEMONT

AMPLE COLLECTED BY : Bill Cresham

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Y: 94 ACTNO: ARD53 SAMNO: 028 QCC: _ MEDIA: SOIL PL: DONA, BOB

TIVITY DES: MONSANTO, QUEENY PLANT REF LATITUDE: _ _ _
OCATION: ST. LOUIS MO PROJECT NUM: A60 PT: LONGITUDE: _ _ _

MPLE DES: VP-6 DATE TIME FROM REF PT
LOCATION: _ MO BEG: 3/7/94 13:55 EAST: _
ASE/BATCH/SMO: _/ _/ _ LAB: _ END: _/ _/ _ : _ NORTH: _
ORET/AIRS NO: _ DOWN: _

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
ASS	ICED	S16	PCB'S - G. BEEMONT

REMARKS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ OPERABLE UNIT: _

VP-6

MPLE COLLECTED BY : Bill Graham

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Y: 94 ACTNO: ARD53 SAMNO: 029 QCC: _ MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT

REF LATITUDE: _ _ _

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

PT: LONGITUDE: _ _ _

SAMPLE DES: VP-11

LOCATION: _ _ _

MO

DATE

TIME

FROM REF PT

BASE/BATCH/SMO: _ _ _

LAB: _

BEG: 3/7/94

13:50

EAST: _

END: _ _ _

14:35

NORTH: _

FORET/AIRS NO: _ _ _

DOWN: _

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

GLASS

ICED

S16

PCB'S - G. BEEMONT

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ OPERABLE UNIT: _

VP-11

SAMPLE COLLECTED BY : Bill Green

DRAFT
FIELD SHEET
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 94 ACTNO: ARD53 SAMNO: 030 QCC: D MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT REF LATITUDE: _____
LOCATION: ST. LOUIS MO PROJECT NUM: A60 PT: LONGITUDE: _____

SAMPLE DES: VP-11
LOCATION: _____ MO
CASE/BATCH/SMO: _____ LAB: _____
STORET/AIRS NO: _____

DATE	TIME	FROM REF PT
BEG: 3/7/94	13:50	EAST: _____
END: 3/7/94	14:35	NORTH: _____
		DOWN: _____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
GLASS	ICED	S16	PCB'S - G. BEEMONT

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _____ OPERABLE UNIT: _____

VP-11

SAMPLE COLLECTED BY : Bill Greenham

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Y: 94 ACTNO: ARD53 SAMNO: 031 QCC: _ MEDIA: SOIL PL: DONA, BOB

CTIVITY DES: MONSANTO, QUEENY PLANT

REF LATITUDE: _ _ _

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

PT: LONGITUDE: _ _ _

SAMPLE DES: VP-30

LOCATION: _ _ _

MO

DATE

TIME

FROM REF PT

CASE/BATCH/SMO: _ _ _

LAB: _

BEG: 3/11/94

11:50

EAST: _

TORET/AIRS NO: _

END: _

11:50

NORTH: _

DOWN: _

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

CLASS

ICED

S16

PCB'S - G. BEEMONT

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ OPERABLE UNIT: _

1ft-3ft bgs

SAMPLE COLLECTED BY : Bill Cushman

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

RY: 94 ACTNO: ARD53 SAMNO: 044 QCC: _ MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT REF LATITUDE: _ _ _
LOCATION: ST. LOUIS MO PROJECT NUM: A60 PT: LONGITUDE: _ _ _

SAMPLE DES: MW-20 GP-20 CS DATE TIME FROM REF PT
LOCATION: MW-20 MO BEG: 3/8/94 17:05 EAST: _ _ _
CASE/BATCH/SMO: _ _ _ LAB: _ END: _ _ _ NORTH: _ _ _
FORET/AIRS NO: _ _ _ DOWN: _ _ _

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
GLASS	NONE	ST09	CYANIDE, TOTAL

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ _ _ OPERABLE UNIT: _ _ _

SAMPLE COLLECTED BY : Bill Curren

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

RY: 94 ACTNO: ARD53 SAMNO: 046 QCC: _ MEDIA: SOIL PL: DONA, BOB

CTIVITY DES: MONSANTO, QUEENY PLANT

REF LATITUDE: _ _ _

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

PT: LONGITUDE: _ _ _

SAMPLE DES: HW-2-GP

DATE

TIME

FROM REF PT

LOCATION: _ _ _

MO

BEG: 3/10/94

08:00

EAST: _ _ _

CASE/BATCH/SMO: _ _ _

LAB: _ _ _

END: _ _ _

08:00

NORTH: _ _ _

TOTRET/AIRS NO: _ _ _

DOWN: _ _ _

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

-40 ML VIALS

COOL (4 C)

SV

SOIL VOLATILES

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ _ _ OPERABLE UNIT: _ _ _

14ft-16ft hgs

SAMPLE COLLECTED BY :

Bill Cwik

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 94 ACTNO: ARD53 SAMNO: 047 QCC: _ MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT REF LATITUDE: _ _ _
LOCATION: ST. LOUIS MO PROJECT NUM: A60 PT: LONGITUDE: _ _ _

SAMPLE DES: KP-2-S DATE TIME FROM REF PT
LOCATION: _ MO BEG: 3/10/94 11:25 EAST: _
CASE/BATCH/SMO: _/ _/ _ LAB: _ END: _/ _/ _ : _ NORTH: _
FORET/AIRS NO: _ DOWN: _

ANALYSIS REQUESTED:

CONTAINER PRESERVATIVE MGP NAME
-40 ML VIALS COOL (4 C) SV SOIL VOLATILES

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ OPERABLE UNIT: _

1ft-3ft. bgs

SAMPLE COLLECTED BY : Bill Graham

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 94 ACTNO: ARD53 SAMNO: 047 QCC: 1 MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT
LOCATION: ST. LOUIS

MO PROJECT NUM: A60 REF LATITUDE: _____
PT: LONGITUDE: _____

SAMPLE DES: KP-2-S

LOCATION: _____ MO DATE TIME FROM REF PT
CASE/BATCH/SMO: _____ LAB: _____ BEG: 3/10/94 11:25 EAST: _____
STORET/AIRS NO: _____ END: _____ NORTH: _____
DOWN: _____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV	SOIL VOLATILES

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _____ OPERABLE UNIT: _____

1ft-3ft. bgs

SAMPLE COLLECTED BY : Bill Creshe

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

Y: 94 ACTNO: ARD53 SAMNO: 049 QCC: _ MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT REF LATITUDE: _ _ _
LOCATION: ST. LOUIS MO PROJECT NUM: A60 PT: LONGITUDE: _ _ _

SAMPLE DES: KP-2-M DATE TIME FROM REF PT
LOCATION: _ MO BEG: 3/10/94 11:55 EAST: _
BASE/BATCH/SMO: _/ _/ _ LAB: _ END: _/ _/ _ : _ NORTH: _
CORET/AIRS NO: _ DOWN: _

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
40 ML VIALS	COOL (4 C)	SV	SOIL VOLATILES

REMARKS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ OPERABLE UNIT: _

SAMPLE COLLECTED BY : _

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

RY: 94 ACTNO: ARD53 SAMNO: 051 QCC: _ MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT REF LATITUDE: _ _ _
LOCATION: ST. LOUIS MO PROJECT NUM: A60 PT: LONGITUDE: _ _ _

SAMPLE DES: B6-2 DATE 3/10/94 TIME 15:40 FROM REF PT
LOCATION: _____ MO BEG: 3/10/94 15:40 EAST: _____
CASE/BATCH/SMO: _____/_____/____ LAB: _____ END: _____ 16:15 NORTH: _____
CORET/AIRS NO: _____ DOWN: _____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
GLASS	ICED	SM	METALS

REMARKS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _____ OPERABLE UNIT: _____

0ft-12ft logs

SAMPLE COLLECTED BY : Bill Cushman

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 94 ACTNO: ARD53 SAMNO: 055 QCC: F MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT

REF LATITUDE: _____

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

PT: LONGITUDE: _____

SAMPLE DES: TRIP BLANK

LOCATION: _____

MO

DATE

TIME

FROM REF PT

CASE/BATCH/SMO: _____

LAB: _____

BEG: 3/9/94

12:00

EAST: _____

STORET/AIRS NO: _____

END: _____

NORTH: _____

DOWN: _____

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

-40 ML VIALS

COOL (4 C)

SV

SOIL VOLATILES

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _____ OPERABLE UNIT: _____

SAMPLE COLLECTED BY : Bill Graham

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 94 ACTNO: ARD53 SAMNO: 056 QCC: F MEDIA: SOIL PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

REF LATITUDE: _____

PT: LONGITUDE: _____

SAMPLE DES: TRIP BLANK

LOCATION: _____

MO

DATE

TIME

FROM REF PT

CASE/BATCH/SMO: _____

LAB: _____

BEG: 3/8/94 16:10

EAST: _____

STORET/AIRS NO: _____

END: _____

NORTH: _____

DOWN: _____

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

1-40 ML VIALS

COOL (4 C)

SV

SOIL VOLATILES

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _____ OPERABLE UNIT: _____

SAMPLE COLLECTED BY :

Bill Cresson

RAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

RY: 94 ACTNO: ARD53 SAMNO: 057 QCC: _ MEDIA: WATER PL: DONA, BOB

CTIVITY DES: MONSANTO, QUEENY PLANT

REF LATITUDE: _ _ _

LOCATION: ST. LOUIS

MO PROJECT NUM: A60

PT: LONGITUDE: _ _ _

SAMPLE DES: field blank

LOCATION: _ _ _ MO

DATE

TIME

FROM REF PT

CASE/BATCH/SMO: _ _ _ / _ _ _

LAB: _ _ _

BEG: 3/8/94 15:20

EAST: _ _ _

TORRET/AIRS NO: _ _ _

END: _ _ _ / _ _ _

NORTH: _ _ _

DOWN: _ _ _

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
40 ML VIALS	HCL +COOL (4 C)	WV	WATER VOLATILES
ASS	ICED	WS	SEMIVOLATILES
UBI	5 ML HNO3	WM	METALS
ASS	ICED	W24	PCB - G. BEEMONT
BI	NAOH	WT09	CYANIDE, TOTAL
ASS	COOL (4 C)	WP27	ALACHLOR

MENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ _ _ OPERABLE UNIT: _ _ _

SAMPLE COLLECTED BY : Bill Crisham

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

SY: 94 ACTNO: ARD53 SAMNO: 058 QCC: F MEDIA: WATER PL: DONA, BOB

ACTIVITY DES: MONSANTO, QUEENY PLANT
LOCATION: ST. LOUIS

REF LATITUDE: _ _ _

MO PROJECT NUM: A60

PT: LONGITUDE: _ _ _

SAMPLE DES: TRIP BLANK

LOCATION: _ _ _

MO

DATE

TIME

FROM REF PT

CASE/BATCH/SMO: _ _ _ / _ _ _

LAB: _ _ _

BEG: 3/8/94 16:00

EAST: _ _ _

TORRET/AIRS NO: _ _ _

END: _ _ _ / _ _ _

NORTH: _ _ _

DOWN: _ _ _

ANALYSIS REQUESTED:

CONTAINER

PRESERVATIVE

MGP

NAME

-40 ML VIALS

HCL +COOL (4 C)

WV

WATER VOLATILES

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: _ _ _ OPERABLE UNIT: _ _ _

SAMPLE COLLECTED BY :

Bill Cushman